

**Federal Operating Permit  
Article 1**

This permit is based upon the requirements of Title V of the Federal Clean Air Act and Chapter 80, Article 1 of the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution. Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9 VAC 5-80-50 through 9 VAC 5-80-300 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name: Department of the Navy  
Facility Name: Naval Amphibious Base, Little Creek  
Facility Location: 1450 Gator Boulevard  
Virginia Beach, Virginia

Registration Number: 60033  
Permit Number: TRO-60033

April 23, 2003  
Original Permit Effective Date

February 7, 2006  
Modification Effective Date

April 22, 2008  
Expiration Date

\_\_\_\_\_(for)\_\_\_\_\_  
Director, Department of Environmental Quality

February 7, 2006  
Signature Date

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## **I. Facility Information**

### Permittee

Commander, Navy Region, Mid-Atlantic  
Environmental Department, Code N45  
1510 Gilbert Street  
Norfolk, Virginia 23511-2737

### Responsible Official

Commander, Navy Region, Mid-Atlantic  
Director, Technical Support Department (Code N45)  
(757) 445-6682

### Facility

Naval Amphibious Base, Little Creek (NAB, Little Creek)  
Virginia Beach, VA 23521

### Contact Person

Bryan Peed  
Air Media Manager  
(757) 445-6628

**County-Plant Identification Number:** 51-810-00013

### **Facility Description:**

NAICS 928110 - National Security

Many resident commands/activities and home-ported ships that perform various maintenance operations relating to vehicles, ships, boats, equipment, and buildings. NAB Little Creek also provides on-base facilities and services for the administrative and logistical support of the operating forces, resident commands, organizations, home-ported ships, and other United States and allied units. The base is also used as a naval military training facility for the Atlantic Fleet.

## II. Abrasive Blasting Units (ABRA-002, 012, & 023)

Equipment to be operated consists of:

| Emission Unit ID              | Stack ID    | Emission Unit Description   | Size/Rated Capacity* | Pollution Control Device (PCD) Description | PCD ID      | Pollutant Controlled | Applicable Permit Date |
|-------------------------------|-------------|---|----------------------|--|-------------|----------------------|------------------------|
| Grit media blasting operation |             |   |                      |  |             |                      |                        |
| ABRA-012                      | AB 1 & AB 2 | Causeway Blasting Booth in bldg CB-125. 1992                      | 22,500 lb/hr         | Dustrex baghouses. 1992                    | BH 1 & BH 2 | PM/PM-10             | SOP of 05/31/05        |
| ABRA-023                      | AB 3 & AB 4 | Causeway Blasting Booth in bldg CB-125. 1992                      | 22,500 lb/h          | Dustrex baghouses. 1992                    | BH 3 & BH 4 | PM/PM 10             | SOP of 05/31/05        |
| Dry-dock blasting operation   |             |   |                      |  |             |                      |                        |
| ABRA-002                      | DDB 1       | Floating dry dock blasting with two blasting booths. Before 1972. | 5.0 ton/hr           | Enclosure & one baghouse. 2001             | BH 5        | PM/PM 10             | SOP of 05/31/05        |

\*The Size/Rated capacity is provided for informational purposes only, and is not an applicable requirement.

**A. Limitations**

1. **Emission Controls** - Particulate emissions from each abrasive blasting booth (Ref. Nos. ABRA-012 and ABRA-023) shall be controlled by two (2) baghouses. Each baghouse shall be provided with adequate access for inspection and shall be in operation when abrasive blasting is taking place.  
(9 VAC 5-80-110 and Condition 4 of 05/31/05 Permit)
2. **Emission Controls** - Particulate emissions from the two (2) abrasive blasting booths at the dry-dock blasting operation (Ref. Nos. ABRA-002) shall be controlled by using a plastic material enclosure and one (1) baghouse. The enclosure and baghouse shall be provided with adequate access for inspection and shall be in operation when abrasive blasting is taking place.  
(9 VAC 5-80-110 and Condition 5 of 05/31/05 Permit)
3. **Throughput** -The annual throughput of new steel grit blasting media for the abrasive blasting booths (Ref. Nos. ABRA-012 and ABRA-023) shall not exceed 58,936 tons per year, calculated monthly as the sum of each consecutive 12-month period.  
(9 VAC 5-80-110 and Condition 6 of 05/31/05 Permit)
4. **Throughput** -The annual throughput of blasting media for the dry-dock blasting operations (Ref. No. ABRA-002) shall not exceed 320 tons per year, calculated monthly as the sum of each consecutive 12-month period.  
(9 VAC 5-80-110 and Condition 7 of 05/31/05 Permit)
5. **Visible Emission Limit** - Visible emissions from each baghouse exhaust for the abrasive blasting booths (Ref. Nos. ABRA-012 and ABRA-023) shall not exceed five (5) percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).  
(9 VAC 5-80-110 and Condition 8 of 05/31/05 Permit)
6. **Visible Emission Limit** -Visible emissions from the baghouse exhaust for the dry dock blasting booths (Ref. No. ABRA-002) shall not exceed twenty (20) percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A) except during one six-minute period in any one hour in which visible emissions shall not exceed sixty (60) percent opacity.  
(9 VAC 5-80-110 and Condition 9 of 05/31/05 Permit)

7. **Emission Limits** - Emissions from the operation of the abrasive blasting booths (Ref. Nos. ABRA-002, ABRA-012, and ABRA-023), combined, shall not exceed the limits specified below:

|   |             |
|---|-------------|
| Total Particulate Matter                | 9.4 tons/yr |
| PM-10                                   | 4.1 tons/yr |
| Hazardous Air Pollutant<br>(individual) | 0.4 ton/yr  |
| Hazardous Air Pollutant<br>(combined)   | 0.9 ton/yr  |

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition II.A.1 through 6.  
(9 VAC 5-80-110 and Condition 10 of 05/31/05 Permit)

## **B. Monitoring**

1. **Monitoring Devices** - Each baghouse shall be equipped with devices to continuously measure the differential pressure drop across the baghouse. Each monitoring device shall be installed, maintained, calibrated and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. Each monitoring device shall be provided with adequate access for inspection and shall be in operation when the baghouse is operating.  
(9 VAC 5-80-110 and Condition 11 of 05/31/05 Permit)
2. **Visible Emissions Evaluations**- The permittee shall perform monthly visual observations on each baghouse stack exhaust for each abrasive blasting area (BH-1 thru 5) during daylight hours of normal operations for visible emissions. If visible emissions are noted from the stack, corrective actions shall be taken to eliminate the visible emissions. If visible emissions continue after corrective actions, a visible emissions evaluation (VEE) shall be immediately conducted on the stack for at least six minutes in accordance with Method 9 (40 CFR 60, Appendix A). If a six minute VEE average for BH-5 exceeds ten (10) percent, the VEE shall continue for an additional 12 minutes. If any six minute VEE average from the 18 minutes of VEE for BH-5 exceeds twenty (20) percent, the VEE shall continue for one hour from initiation on BH-5 stack to determine compliance with the abrasive blasting booth opacity limit. The permittee shall record the details of the visual observations, VEE, and any corrective actions. Records of visual observations shall include the following: the name of the observer, date and time of the observation, identification of the stack, an indication of presence or absence of visible emissions, the duration of any visible emission incident, and any corrective action to eliminate visible emissions. If a VEE is conducted, records shall be in accordance with Method 9 (40 CFR 60, Appendix A).  
(9 VAC 5-80-110 E)

**C. Recordkeeping**

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Tidewater Regional Office. These records shall include, but are not limited to:

1. The annual throughput of new steel grit blasting media (in tons) for the abrasive blasting booths (Ref. Nos. ABRA-012 and ABRA-023), calculated monthly for the latest 12-consecutive month period.
2. The annual throughput of blasting media (in tons) for the dry-dock blasting operations (Ref. No. ABRA-002), calculated monthly for the latest 12-consecutive month period.
3. Scheduled and unscheduled maintenance, operating procedures, and provided operator training for abrasive blasting.
4. Each monthly visible emissions observations on a booth baghouse exhaust.
5. Any corrective actions taken to eliminate visible emissions.
6. Each Method 9 visible emission evaluation performed on a booth baghouse exhaust.
7. DEQ approved emission factors.

These records shall be available on site for inspection by DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-80-110 and Conditions 12 & 80 of 05/31/05 Permit)

**D. Testing**

If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the following test methods for each abrasive blasting booth (Ref. Nos. ABRA-002, 012, and 023) in accordance with procedures approved by the DEQ as follows:

| Pollutant | Test Method                 |
|-----------|-----------------------------|
| PM/PM10   | EPA Methods 5, 17, 201, 202 |

(9 VAC 5-80-110)

### III. Boilers (Group I & II)

Equipment to be operated consists of:

| Emission Unit ID | Stack ID | Emission Unit Description   | Size/Rated Capacity * | Pollution Control Device (PCD) Description        | PCD ID    | Pollutant Controlled | Applicable Permit Date |
|------------------|----------|---|-----------------------|---|-----------|----------------------|------------------------|
| Group I boilers  |          |   |                       |   |           |                      |                        |
| BOIL-001         | GIB-1    | Wickes Spreader Stoker, 61989-1, 1958 (converted to coal in 1982) | 112.5 MM Btu/hr       | Fabric filter, American Blower Corp. 1982         | CB BH-1   | PM/PM-10             | SOP 05/31/05           |
| BOIL-002         | GIB-2    | Wickes Spreader Stoker, 61989-2, 1958 (converted to coal in 1982) | 112.5 MM Btu/hr       | Fabric filter, American Blower Corp. 1982         | CB BH-2   | PM/PM-10             | SOP 05/31/05           |
| BOIL-003         | GIB-3    | Wickes Spreader Stoker, 61989-3, 1958 (converted to coal in 1982) | 112.5 MM Btu/hr       | Fabric filter, American Blower Corp. 1982         | CB BH-3   | PM/PM-10             | SOP 05/31/05           |
| BLR-001          | GIB-4    | Nebraska oil/natural gas fired boiler, model NS-ES-58, 2005       | 76.2 MM Btu/hr        | Low NOx burner and flue gas re-circulation system | LNOxFGR-1 | NOx                  | SOP 05/31/05           |
| BLR-002          | GIB-5    | Nebraska oil/natural gas fired boiler, model NS-ES-58, 2005       | 80.0 MM Btu/hr        | Low NOx burner and flue gas re-circulation system | LNOxFGR-2 | NOx                  | SOP 05/31/05           |
| BLR-003          | GIB-6    | Nebraska oil/natural gas fired boiler, model NS-ES-58, 2005       | 75.6 MM Btu/hr        | Low NOx burner and flue gas re-circulation system | LNOxFGR-3 | NOx                  | SOP 05/31/05           |
| BLR-004          | GIB-7    | Nebraska oil/natural gas fired boiler, model NS-ES-58, 2005       | 75.6 MM Btu/hr        | Low NOx burner and flue gas re-circulation system | LNOxFGR-4 | NOx                  | SOP 05/31/05           |
| Group II boiler  |          |   |                       |   |           |                      |                        |
| BOIL- 4,         | GIIB-4   | Distillate oil fired boiler installed after 3/17/72 in bldg 3870. | 10.6 MM Btu/hr        | N/A   | N/A       | N/A                  | SOP 05/31/05           |

\*The Size/Rated capacity is provided for informational purposes only, and is not an applicable requirement.

**A. Limitations**

1. **Emission Controls** - Particulate emissions from each Group I coal-fired boiler (Ref. Nos. BOIL-001, BOIL-002, and BOIL-003) shall be controlled by a baghouse. Each baghouse shall be provided with adequate access for inspection and shall be in operation when a boiler is operating.  
(9 VAC 5-80-110 and Condition 13 of 05/31/05 Permit)
2. **Emission Controls** - Fugitive dust emissions from the coal/ash handling system shall include the following or equivalent as a minimum:
  - a. Coal being transferred from the main conveyor to the open storage pile shall be controlled by wet suppression.
  - b. Fly-ash and bottom ash being transferred from the ash silo to a vehicle shall be controlled by an enclosed chute and the free fall of the ash into the vehicle shall be held to an absolute minimum.
  - c. The vehicles transporting the fly-ash and bottom ash shall be fully enclosed.  
(9 VAC 5-80-110 and Condition 14 of 05/31/05 Permit)
3. **Fuel Throughput** – The Group I coal-fired boilers (Ref. Nos. BOIL-001, BOIL-002, and BOIL-003), combined, shall consume no more than 27,500 tons of bituminous coal per year, calculated monthly as the sum of each consecutive 12-month period.  
(9 VAC 5-80-110 and Condition 15 of 05/31/05 Permit)
4. **Fuel** - The approved fuel for the Group I coal-fired boilers (Ref. Nos. BOIL-001, BOIL-002, and BOIL-003) is bituminous coal. Bituminous coal is coal that meets specifications for bituminous coal under the American Society for Testing and Materials in ASTM, "Standard Specification for Classifications of Coals by Rank". A change in the fuel may require a permit to modify and operate.  
(9 VAC 5-80-110 and Condition 16 of 05/31/05 Permit)
5. **Fuel** - The maximum sulfur content of the coal to be burned by the Group I coal-fired boilers (Ref. Nos. BOIL-001, BOIL-002, and BOIL-003) shall not exceed 1.5 percent by weight per shipment.  
(9 VAC 5-80-110 and Condition 17 of 05/31/05 Permit)
6. **Visible Emission Limit** - Visible emissions from each boiler stack (Ref. Nos. BOIL-001, BOIL-002, and BOIL-003) shall not exceed twenty (20) percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A), except during one six-minute period in any one hour in which visible emissions shall not exceed sixty (60) percent opacity. This condition applies at all times except during start-up, shutdown, or malfunction.  
(9 VAC 5-80-110 and Condition 18 of 05/31/05 Permit)

7. **Emission Limits** - Emissions from the operation of the coal fired boilers (Ref. Nos. BOIL-001, BOIL-002, and BOIL-003), combined, shall not exceed the limits specified below:

|  |               |
|--|---------------|
| PM/PM-10                                 | 43.4 tons/yr  |
| Sulfur Dioxide                           | 345.3 tons/yr |
| Nitrogen Oxides<br>(as NO <sub>2</sub> ) | 204.2 tons/yr |
| Carbon Monoxide                          | 7.4 tons/yr   |
| Volatile Organic<br>Compounds            | 0.7 ton/yr    |
| Hazardous Air Pollutant<br>(individual)  | 2.1 tons/yr   |
| Hazardous Air Pollutant<br>(combined)    | 2.9 tons/yr   |

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition III.A.1 thru 6 and III.B.1. (9 VAC 5-80-110 and Condition 19 of 05/31/05 Permit)

8. **Operating Limits:** - The three Group I coal fired boilers (Ref. Nos. BOIL-001, BOIL-002, and BOIL-003), each rated at 112.5 MM Btu/hr may operate until transition day and shall be shut down and shall be removed from the facility after transition day (as defined in Condition III.A.9). Re-installing or reactivating any of the three coal fired boilers after transition day shall require a permit to construct and operate.  
(9 VAC 5-80-110 and Condition 20 of 05/31/05 Permit)
9. **Operational transition from the old coal fired boilers (Ref. Nos. BOIL-001, BOIL-002, and BOIL-003) to the new oil/natural gas fired boilers (BLR#-001, 002, 003, and 004)** - Once the installation and warranty testing has been completed on the new boilers (BLR#-001, 002, 003, and 004), the new boilers will not begin operation for the production of steam until transition day. The transition day shall be when the coal resources have been depleted and the last day that the coal fired boilers (Ref. Nos. BOIL-001, BOIL-002, and BOIL-003) operate.  
(9 VAC 5-80-110 and Condition 21 of 05/31/05 Permit)
10. **Fuel** - The approved fuels for the four Group I boilers (BLR#-001, 002, 003, and 004) are distillate oil and natural gas. A change in the fuel may require a permit to modify and operate.  
(9 VAC 5-80-110 and Condition 22 of 05/31/05 Permit)

11. **Fuel** - The distillate oil fuel for the four Group I boilers (BLR#-001, 002, 003, and 004) shall meet the specifications below:  
DISTILLATE OIL which meets the ASTM D396-78, 89, 90, 92, 96, 98, or 02a specification for numbers 1 or 2 fuel oil:  
Maximum sulfur content per shipment: 0.2%  
(9 VAC 5-80-110 and Condition 23 of 05/31/05 Permit)
12. **Fuel Throughput** - The four Group I boilers (BLR#-001, 002, 003, and 004), combined, shall consume no more than 17,000,000 gallons of distillate oil and 2,600,000,000 cubic feet of natural gas per year, calculated monthly as the sum of each consecutive 12-month period.  
(9 VAC 5-80-110 and Condition 24 of 05/31/05 Permit)
13. **Visible Emission Limit** - Visible emissions from each of the four Group I boilers (BLR#-001, 002, 003, and 004) shall not exceed 10 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 20 percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.  
(9 VAC 5-80-110 and Condition 25 of 05/31/05 Permit)
14. **Emission Controls** - NOx emissions from the four Group I new boilers (BLR#-001, 002, 003, and 004) shall be controlled by each boiler being equipped with low NOx burners and a flue gas re-circulation system. The low NOx burners and a flue gas re-circulation system shall be in operation when each boiler is operating.  
(9 VAC 5-80-110 and Condition 26 of 05/31/05 Permit)

15. **Emission Limits** - Emissions from the operation of the four Group I boilers (BLR#-001, 002, 003, and 004) shall not exceed the limits specified below:

|  | Each        | Combined      |
|--|-------------|---------------|
| Particulate Matter                       | 2.3 lbs/hr  | 36.2 tons/yr  |
| PM-10                                    | 1.3 lbs/hr  | 21.1 tons/yr  |
| Sulfur Dioxide                           | 15.6 lbs/hr | 241.6 tons/yr |
| Nitrogen Oxides<br>(as NO <sub>2</sub> ) | 7.2 lbs/hr  | 118.6 tons/yr |
| Carbon Monoxide                          | 5.9 lbs/hr  | 96.1 tons/yr  |
| Volatile Organic<br>Compounds            | 0.4 lbs/hr  | 7.4 tons/yr   |
| Hazardous Air Pollutant<br>(individual)  |             | 2.3 tons/yr   |
| Hazardous Air Pollutant<br>(combined)    |             | 2.5 tons/yr   |

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition III.A10 thru 14 and III.B.2. (9 VAC 5-80-110 and Condition 27 of 05/31/05 Permit)

16. **Requirements by Reference** - Except where this permit is more restrictive than the applicable requirement, the four NSPS boilers (BLR#-001, 002, 003, and 004) shall be operated in compliance with the requirements of 40 CFR 60, Subpart Dc. (9 VAC 5-80-110 and Condition 28 of 05/31/05 Permit)
17. **Fuel** - The approved fuel for the Group II boiler (Ref. No. BOIL-004) is distillate oil and shall meet the specifications below:  
DISTILLATE OIL which meets the ASTM specification for: numbers 1 or 2 fuel oils/diesel fuel oils, or marine middle distillate fuel oil.  
Maximum sulfur content per shipment: 0.5%  
A change in the fuel may require a permit to modify and operate.  
(9 VAC 5-80-110 and Condition 29 of 05/31/05 Permit)
18. **Fuel Throughput** - The Group II boiler (Ref. No. BOIL-004) shall consume no more than 49,822 gallons of distillate oil per year, calculated monthly as the sum of each consecutive 12-month period.  
(9 VAC 5-80-110 and Condition 30 of 05/31/05 Permit)
19. **Visible Emission Limit** - Visible emissions from the Group II boiler (Ref. No. BOIL-004) shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.  
(9 VAC 5-80-110 and Condition 31 of 05/31/05 Permit)

20. **Emission Limits** - Emissions from the operation of the Group II boiler (Ref. No. BOIL-004) shall not exceed the limits specified below:

|  |            |               |
|--|------------|---------------|
| Sulfur Dioxide                           | 3.2 lbs/hr | 1.8 tons/yr   |
| Nitrogen Oxides<br>(as NO <sub>2</sub> ) | 1.5 lbs/hr | 0.5 tons/yr   |
| Hazardous Air Pollutant<br>(individual)  |            | 0.002 tons/yr |
| Hazardous Air Pollutant<br>(combined)    |            | 0.004 tons/yr |

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition III.A.17, 18, 19, and III.B.3. (9 VAC 5-80-110 and Condition 32 of 05/31/05 Permit)

## **B. Monitoring**

1. **Fuel Certification** - The permittee shall obtain a laboratory analysis for each shipment of coal. The laboratory analysis for each shipment of coal shall include the following:
  - a. The name of the supplier of each coal shipment,
  - b. The date on which the coal was received,
  - c. The amount of coal (in tons),
  - d. The sulfur content, BTU content, and ash content,
  - e. Method used to determine the sulfur content of the coal.(9 VAC 5-80-110 and Condition 33 of 05/31/05 Permit)
2. **Fuel Certification** - The permittee shall obtain a certification from the fuel supplier for each shipment of distillate oil to tank-001 for use by the four Group I boilers (BLR#-001, 002, 003, and 004). Each fuel supplier certification shall include the following:
  - a. The name of the fuel supplier;
  - b. The date on which the distillate oil was received;
  - c. The volume of distillate oil delivered in the shipment;

- d. A statement that the distillate oil complies with the American Society for Testing and Materials D396 specifications for numbers 1 or 2 fuel oil;
  - e. The maximum sulfur content of the distillate oil.  
(9 VAC 5-80-110 and Condition 34 of 05/31/05 Permit)
3. **Fuel Analysis** - The permittee shall obtain a laboratory analysis of a fuel sample for the fuel used by the Group II boiler (Ref. No. BOIL-004). One analysis shall be conducted for each calendar month that the Group II boiler (Ref. No. BOIL-004) used any fuel from the tank. The laboratory analysis for each sample of distillate oil shall include the following:
- a. The date on which the distillate oil was sampled
  - b. The maximum sulfur content of the distillate oil.
- (9 VAC 5-80-110 and Condition 35 of 05/31/05 Permit)

**4. Compliance Assurance Monitoring (CAM) for PM/PM-10:**

Monitoring Approach For Each Group I Coal-Fired Boiler  
(Ref. Nos. BOIL-001, BOIL-002, AND BOIL-003):

|                            |   |
|----------------------------|---|
| Indicators                 | Differential pressure for each boiler baghouse.   |
| Measurement Approach       | Magnahelic meter on six quadrants of each baghouse with one meter measuring overall differential air pressure across the baghouse.    |
| Indicator Ranges           | An excursion when any reading is:<br>Below 3.0 inches or above 5.0 inches.  |
| Data Representativeness    | Differential pressure across each quadrant of the baghouse.   |
| Response to excursions     | Maintenance will respond within one hour to make adjustments/repairs.   |
| QA/QC                      | Each quadrant pressure gauge is compared to the overall pressure gauge to ensure accuracy. Meter calibrations are performed annually. |
| Monitoring Frequency       | Differential pressure is continuously measured by each meter; scale range is 0-20 inches.   |
| Data Collection Procedures | Differential pressure reading is recorded once per shift for each operating boiler  |
| Averaging Period           | None.   |

(9 VAC 5-80-110 E)

- 5. Visible Emissions Evaluations** - The permittee shall perform a monthly visual emissions observation on each Group I boiler (BOIL-001, 002, and 003) stack during normal operations. If such visual observation indicates any visible emissions, the permittee shall take corrective actions to correct the cause of the opacity. If such corrective actions fail to eliminate visible emissions, the permittee shall conduct a visible emissions evaluation (VEE) using 40 CFR Part 60, Appendix A, Method 9 for six minutes. If the six minute VEE opacity average exceeds 10%, the VEE shall continue for an additional 12 minutes. If any of the six minute averages during the 18 minutes exceeds 20%, the VEE shall continue for one hour from initiation on the baghouse stack to determine compliance with the opacity limit. The permittee shall record the details of the visual emissions observations, VEE, and any corrective actions. Records of visual observations shall include the following: the name of the observer, date and time of the observation, identification of the stack, an indication of presence or absence of visible emissions, the duration of any visible emission incident, and any corrective action to eliminate visible emissions. If a VEE is conducted, records shall be in accordance with Method 9 (40 CFR 60, Appendix A).

(9 VAC 5-80-110 E)

6. **Visible Emissions Evaluations** - The permittee shall perform a monthly visual emissions observation on each Group I boiler (BLR#-001, 002, 003 and 004) stack during normal operations. If such visual observation indicates any visible emissions, the permittee shall take corrective actions to correct the cause of the opacity. If such corrective actions fail to eliminate visible emissions, the permittee shall conduct a visible emissions evaluation (VEE) using 40 CFR Part 60, Appendix A, Method 9 for six minutes. If the six minute VEE opacity average exceeds 5%, the VEE shall continue for an additional 12 minutes. If any of the six minute averages during the 18 minutes exceeds 10%, the VEE shall continue for one hour from initiation on the baghouse stack to determine compliance with the opacity limit. The permittee shall record the details of the visual emissions observations, VEE, and any corrective actions. Records of visual observations shall include the following: the name of the observer, date and time of the observation, identification of the stack, an indication of presence or absence of visible emissions, the duration of any visible emission incident, and any corrective action to eliminate visible emissions. If a VEE is conducted, records shall be in accordance with Method 9 (40 CFR 60, Appendix A). (9 VAC 5-80-110 E)

#### **C. Recordkeeping**

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Tidewater Regional Office. These records shall include, but are not limited to:

1. The annual throughput of coal for Group I boilers (Ref. Nos. BOIL-001, BOIL-002, and BOIL-003), combined, calculated monthly as the sum of each consecutive 12-month period.
2. For each the four Group I boilers (BLR#-001, 002, 003, and 004), daily and annual throughput of natural gas and/or distillate oil, or alternate records as approved in writing by EPA, Region III. Annual throughput shall be calculated monthly as the sum of each consecutive 12-month period.
3. The annual throughput of natural gas and/or distillate oil for the four Group I boilers (BLR#-001, 002, 003, and 004), combined, calculated monthly as the sum of each consecutive 12-month period.
4. The annual throughput of distillate oil the Group II boiler (BOIL-004), calculated monthly as the sum of each consecutive 12-month period.
5. All fuel supplier certifications of distillate oils for Group I boilers.
6. All laboratory analyses for coal shipments for Group I boilers.
7. All laboratory analyses of fuel for Group II boiler.

8. Scheduled and unscheduled maintenance, operating procedures, and provided operator training for all Group I boilers.
9. The records of all DEQ approved emission factors.
10. Each monthly visible emissions observation, noted excursions, and any corrective actions taken to eliminate visible emissions.
11. Each operating day baghouse pressure drop gauge measurement, noted excursions, and any corrective actions taken to eliminate visible emissions.
12. Each Method 9 visible emissions evaluation performed.

These records shall be available on site for inspection by DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-80-110 and Conditions 37 & 80 of 05/31/05 Permit)

#### **D. Testing**

1. **Initial Visible Emissions Evaluation** - Visible Emission Evaluations (VEE) in accordance with 40 CFR Part 60, Appendix A, Method 9, shall be conducted by the permittee on the following equipment: each of the four Group I boilers (BLR#-001, 002, 003, and 004). Each test shall consist of 30 sets of 24 consecutive observations (at 15 second intervals) to yield a six minute average. The details of the tests are to be arranged with the Director, Tidewater Regional Office. The evaluation shall be performed and test results reported within 60 days after achieving the maximum production rate at which the facility will be operated but in no event later than 180 days after the transition day start-up. The VEE shall be conducted when the boilers are being fired on distillate oil.

(9 VAC 5-80-110 and Condition 36 of 05/31/05 Permit)

2. **Additional Testing-** If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the following test methods for the Group I and II boilers in accordance with procedures approved by the DEQ as follows:

| Pollutant | Test Method   |
|-----------|---------------|
| VOC       | EPA Method 18 |
| NOx       | EPA Method 7  |
| SO2       | EPA Method 6  |
| CO        | EPA Method 10 |

| Pollutant         | Test Method             |
|-------------------|-------------------------|
| PM/PM10           | EPA Methods 5, 201, 202 |
| Visible Emissions | EPA Method 9            |

(9 VAC 5-80-110 E)

#### **E. Reporting**

1. **Initial Notifications for Group I boilers** - The permittee shall furnish written notification to the Director, Tidewater Regional Office:
  - a. The anticipated transition day start-up date of the four new Group I boilers (BLR#-001, 002, 003, and 004), postmarked not more than 60 days nor less than 30 days prior to such date.
  - b. The actual transition day start-up date of the four new Group I boilers (BLR#-001, 002, 003, and 004), within 15 days after such date.
  - c. The anticipated date of visible emissions evaluation tests of the four new Group I boilers (BLR#-001, 002, 003, and 004), postmarked at least 30 days prior to such date.
  - d. Copies of the written notification referenced in items b and c above are to be sent to:

Associate Director  
Office of Air Enforcement (3AP12)  
U.S. Environmental Protection Agency, Region III  
Attention Dc Coordinator  
1650 Arch Street  
Philadelphia, PA 19103-2029

(9 VAC 5-80-110 and Condition 38 of 05/31/05 Permit)

2. **Initial Visible Emissions Evaluation** - One copy of the Initial Visible Emissions Evaluation test results for the four new Group I boilers (BLR#-001, 002, 003, and 004) shall be submitted to the Director, Tidewater Regional Office and the U.S. Environmental Protection Agency (at address listed in Condition III.E.1) and shall conform to the test report format enclosed with the 05/31/05 permit.

(9 VAC 5-80-110 and Condition 36 of 05/31/05 Permit)

3. **Semi-Annual Fuel Reports for Group I boilers (Ref. Nos. BLR#-001, 002, 003, and 004)** - The permittee shall submit fuel quality reports to the Director, Tidewater Regional Office within 30 days after the end of each semi-annual period (January-June and July-December). The first semi-annual period begins with the first distillate oil delivery to tank-001. If no shipments of distillate oil were received for tank-001 during the semi-annual period, the semi-annual report shall consist of the dates included in the semi-annual period and a statement that no oil was received for Group I boilers (Ref. Nos. BLR#-001, 002, 003, and 004) during the semi-annual period. If distillate oil was received during the semi-annual period, the reports shall include:
- a. Dates included in the semi-annual period;
  - b. A copy of all fuel supplier certifications for all shipments of distillate oil received during the semi-annual period or a semi-annual summary from each fuel supplier that includes the information specified in Condition III.B.2 for each shipment of distillate oil;
  - c. A signed statement from the owner or operator of the facility that the fuel supplier certifications or summaries of fuel supplier certifications represent all of the distillate oil burned by the Group I boilers (Ref. Nos. BLR#-001, 002, 003, and 004) or delivered to tank-001 for use by the Group I boilers (Ref. Nos. BLR#-001, 002, 003, and 004); and
  - d. One copy of the semi-annual report shall be submitted to the U.S. Environmental Protection Agency at the address specified in Condition III.E.1.  
(9 VAC 5-80-110 and Condition 39 of 05/31/05 Permit)

#### IV. Generators/Engines (Group II & III)

Equipment to be operated consists of:

| Emission Unit ID            | Stack ID                | Emission Unit Description   | Size/Rated Capacity*        | Pollution Control Device (PCD) Description | PCD ID | Pollutant Controlled | Applicable Permit Date |
|-----------------------------|-------------------------|---|-----------------------------|--|--------|----------------------|------------------------|
| Group II Engines/generators |                         |   |                             |  |        |                      |                        |
| OCOM-10, 11, 19, and 20     | OCOM-10, 11, 19, and 20 | Four diesel engines located in building 3872; installed after 1972                      | 820 HP total                | N/A  | N/A    | N/A                  | SOP of 05/31/05        |
| ICGF-37 and 49              | ICGF-37 and 49          | Two diesel emergency generators located in building 777 and 1265; installed after 1972. | Each <1125 kW, but > 645 HP | N/A  | N/A    | N/A                  | N/A                    |
| Group III Generators        |                         |   |                             |  |        |                      |                        |
| ICGF-39 & 40                | ICGF-39 & 40            | Two diesel peak generators located in building 773 & 774; installed in 1997             | Each 1600 kW                | N/A  | N/A    | N/A                  | SOP of 05/31/05        |

\*The Size/Rated capacity is provided for informational purposes only, and is not an applicable requirement.

## A. Limitations

1. **Fuel** - The approved fuel for the Group III generators is distillate oil and shall meet the specifications below:  
DISTILLATE OIL which meets the specifications for fuel oil or diesel oil numbers 1 or 2 under the American Society for Testing and Materials, ASTM "Standard Specification for Fuel Oils" or "Standard Specification for Diesel Fuel Oils".  
Maximum sulfur content per shipment: 0.5%  
A change in the fuel may require a permit to modify and operate.  
(9 VAC 5-80-110 and Condition 40 of 05/31/05 Permit)
2. **Fuel** - The approved fuel for the Group II diesel engines/generators is distillate oil and shall meet the specifications below:  
DISTILLATE OIL which meets the ASTM specification for: numbers 1 or 2 fuel oils/diesel fuel oils, or marine middle distillate fuel oil.  
Maximum sulfur content per shipment: 0.5%  
A change in the fuel may require a permit to modify and operate.  
(9 VAC 5-80-110 and Condition 41 of 05/31/05 Permit)
3. **Fuel Throughput** - The Group II diesel engines/generators (combined) shall consume no more than 78,705 gallons of distillate oil per year, calculated monthly as the sum of each consecutive 12-month period.  
(9 VAC 5-80-110 and Condition 42 of 05/31/05 Permit)
4. **Fuel Throughput** - The Group III generators (combined) shall consume no more than 160,000 gallons of distillate oil per year, calculated monthly as the sum of each consecutive 12-month period.  
(9 VAC 5-80-110 and Condition 43 of 05/31/05 Permit)
5. **Emission Controls** - Nitrogen oxide emissions from each Group III diesel peak shaving/emergency generator (Ref. Nos. ICGF-039 and ICGF-040) shall be controlled by retarding the fuel injection timing by four (4) degrees from standard timing.  
(9 VAC 5-80-110 and Condition 44 of 05/31/05 Permit)
6. **Visible Emission Limit** - Visible emissions from each of Group II diesel engines/generators, and Group III generators shall not exceed twenty (20) percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A), except during one six-minute period in any one hour in which visible emissions shall not exceed thirty (30) percent opacity. This condition applies at all times except during startup, shutdown, and malfunction.  
(9 VAC 5-80-110 and Condition 45 of 05/31/05 Permit)

7. **Emission Limits** - Emissions from the operation of the Group II diesel engines/generators (combined), shall not exceed the limits specified below:

|  |              |
|--|--------------|
| PM/PM-10                                 | 1.7 tons/yr  |
| Sulfur Dioxide                           | 1.6 tons/yr  |
| Nitrogen Oxides<br>(as NO <sub>2</sub> ) | 24.3 tons/yr |
| Carbon Monoxide                          | 5.2 tons/yr  |
| Volatile Organic<br>Compounds            | 1.9 tons/yr  |
| Hazardous Air Pollutant<br>(individual)  | 0.006 ton/yr |
| Hazardous Air Pollutant<br>(combined)    | 0.02 ton/yr  |

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition numbers IV.A.2, 3, 6 and IV.B.2. (9 VAC 5-80-110 and Condition 46 of 05/31/05 Permit)

8. **Emission Limits** - Emissions from the operation of the Group III generators, combined, shall not exceed the limits specified below:

|  |              |
|--|--------------|
| PM                                       | 0.8 ton/yr   |
| PM-10                                    | 0.7 ton/yr   |
| Sulfur Dioxide                           | 5.7 tons/yr  |
| Nitrogen Oxides<br>(as NO <sub>2</sub> ) | 35.8 tons/yr |
| Carbon Monoxide                          | 9.5 tons/yr  |
| Volatile Organic<br>Compounds            | 0.9 ton/yr   |
| Hazardous Air Pollutant<br>(individual)  | 0.01 ton/yr  |
| Hazardous Air Pollutant<br>(combined)    | 0.02 ton/yr  |

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition numbers IV.A.1, 4, 5, 6 and IV.B.1. (9 VAC 5-80-110 and Condition 47 of 05/31/05 Permit)

## B. Monitoring

1. **Fuel Certification** - The permittee shall obtain a certification from the fuel supplier for each shipment of distillate oil for the Group III generators. Each fuel supplier certification shall include the following:

- a. The name of the fuel supplier;
  - b. The date on which the distillate oil was received;
  - c. The volume of distillate oil delivered in the shipment;
  - d. A statement that the distillate oil complies with the American Society for Testing and Materials specifications for numbers 1 or 2 fuel oil or diesel fuel.  
(9 VAC 5-80-110 and Condition 48 of 05/31/05 Permit)
2. **Fuel Analysis** - The permittee shall obtain a laboratory analysis of a fuel sample from the fuel used by the Group II engines/generators. One analysis shall be conducted for each calendar month that the Group II engines/generators used any fuel from the tank. The laboratory analysis for each sample of distillate oil shall include the following:
- a. The date on which the distillate oil was sampled;
  - b. The maximum sulfur content of the distillate oil.  
(9 VAC 5-80-110 and Condition 49 of 05/31/05 Permit)
3. **Visible Emission Evaluations**- The permittee shall observe each Group III generator stack for visible emissions when the generator is under full load at least once per year. If such visual observation indicates any visible emissions, the permittee shall take corrective actions to correct the cause of the opacity. If such corrective actions fail to eliminate visible emissions, the permittee shall conduct a visible emissions evaluation (VEE) using 40 CFR Part 60, Appendix A, Method 9 for six minutes. If the six minute VEE opacity average exceeds 10%, the VEE shall continue for an additional 12 minutes. If any of the six minute averages during the 18 minutes exceeds 20%, the VEE shall continue for one hour from initiation on the baghouse stack to determine compliance with the opacity limit. The permittee shall record the details of the visual emissions observations, VEE, and any corrective actions. Records of visual observations shall include the following: the name of the observer, date and time of the observation, identification of the stack, an indication of presence or absence of visible emissions, the duration of any visible emission incident, and any corrective action to eliminate visible emissions. If a VEE is conducted, records shall be in accordance with Method 9 (40 CFR 60, Appendix A).  
(9 VAC 5-80-110 E)

### C. Recordkeeping

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Tidewater Regional Office. These records shall include, but are not limited to:

1. The annual throughput of distillate oil for Group II diesel engines/generators (combined), and Group III generators (combined), calculated monthly as the sum of each consecutive 12-month period.

2. All fuel supplier certifications and laboratory analyses of fuel for the Group II diesel engines/generators and Group III generators.
3. Scheduled and unscheduled maintenance, operating procedures, and provided operator training for the Group III generators.
4. The permittee shall maintain records of the following items for each Group III generator:
  - a. Each visible emissions observation, noted excursions, and any corrective actions taken to eliminate visible emissions,
  - b. Each Method 9 visible emissions evaluation performedThese records shall be available for inspection by the DEQ and shall be current for the most recent five years.  
(9 VAC 5-80-110 and Conditions 50 & 80 of 05/31/05 Permit)

#### **D. Testing**

1. If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the following test methods for the Group II and III generators/engines in accordance with procedures approved by the DEQ as follows:

| Pollutant         | Test Method             |
|-------------------|-------------------------|
| VOC               | EPA Method 18           |
| NOx               | EPA Method 7            |
| SO2               | EPA Method 6            |
| CO                | EPA Method 10           |
| PM/PM10           | EPA Methods 5, 201, 202 |
| Visible Emissions | EPA Method 9            |

(9 VAC 5-80-110 E)

**V. Firing Ranges (FIRI-001 & 002)**

Equipment to be operated consists of:

| Emission Unit ID | Stack ID   | Emission Unit Description | Size/Rated Capacity* | Pollution Control Device (PCD) Description | PCD ID | Pollutant Controlled | Applicable Permit Date |
|------------------|------------|---------------------------|----------------------|--|--------|----------------------|------------------------|
| Firing Ranges    |            |                           |                      |  |        |                      |                        |
| FIRI-001         | FR-1       | Indoor firing range, 1997 | 750 rounds/hr        | Particulate filter. 1997                   | FRPF-1 | PM/PM-10             | SOP of 05/31/05        |
| FIRI-002         | STFIRI-002 | Indoor firing range, 2005 | 4400 rounds/hr       | Particulate filter. 2005                   | FRPF-2 | PM/PM-10<br>Lead     | SOP of 05/31/05        |

\*The Size/Rated capacity is provided for informational purposes only, and is not an applicable requirement.

## **A. Limitations**

1. **Emission Controls** - Particulate emissions from each small arms range (FIRI-001 and 002) shall be controlled by disposable particulate filters. Each particulate filter shall be provided with adequate access for inspection and shall be in operation when a firing range is operating.  
(9 VAC 5-80-110 and Condition 51 of 05/31/05 Permit)
2. **Throughput** -The annual throughput of rounds for the firing ranges combined (FIRI-001 and 002) shall not exceed 10,300,000 rounds, combined, calculated monthly as the sum of each consecutive 12-month period.  
(9 VAC 5-80-110 and Condition 52 of 05/31/05 Permit)
3. **Visible Emission Limit** - Visible emissions from the disposable particulate filter stack of each small arms range (FIRI-001 and 002) shall not exceed five (5) percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).  
(9 VAC 5-80-110 and Condition 53 of 05/31/05 Permit)

## **B. Monitoring**

The permittee shall observe the disposable particulate filter stacks for each firing range (FIRI-001 and 002) least once per year. If such visual observation indicates any visible emissions, the permittee shall take corrective actions to correct the cause of the opacity. If such corrective actions fail to eliminate visible emissions, the permittee shall conduct a visible emissions evaluation (VEE) using 40 CFR Part 60, Appendix A, Method 9 for six minutes to determine compliance with the indoor firing range opacity limit. Records of visual observations shall include the following: the name of the observer, date and time of the observation, identification of the stack, an indication of presence or absence of visible emissions, the duration of any visible emission incident, and any corrective action to eliminate visible emissions. If a VEE is conducted, records shall be in accordance with Method 9 (40 CFR 60, Appendix A).

(9 VAC 5-80-110 E)

## **C. Recordkeeping**

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Tidewater Regional Office. These records shall include, but are not limited to:

1. The annual throughput of rounds for the small arms ranges (Ref. No. FIRI-001 and 002), combined, calculated monthly as the sum of each consecutive 12-month period.
2. Scheduled and unscheduled maintenance, operating procedures, and provided operator training for each small arms range (Ref. No. FIRI-001 and 002).
3. Each visible emissions observation, noted excursions, and any corrective actions taken to eliminate visible emissions.

4. Each Method 9 visible emissions evaluation performed.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.

(9 VAC 5-80-110 and Conditions 54 & 80 of 05/31/05 Permit)

#### **D. Testing**

If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the following test methods in accordance with procedures approved by the DEQ as follows:

| Pollutant | Test Method                 |
|-----------|-----------------------------|
| PM/PM10   | EPA Methods 5, 17, 201, 202 |

(9 VAC 5-80-110)

#### **E. Reporting**

1. **Initial Notifications for new firing range (Ref. No. FIRI-002)** - The permittee shall furnish written notification to the Director, Tidewater Regional Office:

- a. The actual date on which construction of the new small arms range (Ref. No. FIRI-002) commenced, within 30 days after such date.
- b. The actual start-up date of the new small arms range (Ref. No. FIRI-002), within 15 days after such date.

(9 VAC 5-80-110 and Condition 55 of 05/31/05 Permit)

## VI. Gasoline Operations

Equipment to be operated consists of:

| Emission Unit ID | Stack ID  | Emission Unit Description  | Size/Rated Capacity*  | Pollution Control Device (PCD) | PCD ID  | Pollutant Controlled | Applicable Permit Date |
|------------------|-----------|--|---|--------------------------------|---------|----------------------|------------------------|
| PETO-001a        | PETO-001a | Gasoline loading rack and associated storage tank in the fuel farm. Pre 1972                             | Operates at less than 4,000 gal/day   | N/A                            | N/A     | N/A                  | SOP of 05/31/05        |
| GSTA-003         | GSTA-003  | Gasoline dispensing facilities and associated storage tanks: GSTA-003 at bldg 1612 (WCITGO). After 1972. | GSTA-003 with four pumps.<br>GSTA-005 with 12 pumps.<br>GSTA-006 with one pump. | All tanks with Stage 1         | Stage 1 | VOC/HAP S            | SOP of 05/31/05        |
| GSTA-005         | GSTA-005  | GSTA-005 at bldg 3084 (ECITGO). After 1972.  |   |                                |         |                      |                        |
| GSTA-006         | GSTA-006  | GSTA-006 at bldg 3860 (fuel farm). After 1972  |   |                                |         |                      |                        |

\*The Size/Rated capacity is provided for informational purposes only, and is not an applicable requirement.

## A. Limitations

1. **Emission Controls** - VOC emissions from the tanks at the commercial and fuel farm service stations and tank at the loading rack (Ref. No. PETO-001a) shall be controlled by the use of Stage I vapor recovery equipment that consists of:

- a. A submerged fill pipe, and
- b. A connector for the vapor tight return line from the storage tank to the tank truck before gasoline is transferred into the tank.

Each Stage I recovery system shall be provided with adequate access for inspection and shall be in operation when a tank is being filled.

(9 VAC 5-80-110 and Condition 56 of 05/31/05 Permit)

2. **Throughput** - The annual throughput of gasoline for the commercial service stations and military service station in the fuel farm (combined) shall not exceed 5,735,000 gallons, calculated monthly as the sum of each consecutive 12-month period. The annual throughput of gasoline for storage tanks associated with the commercial service stations and military service station in the fuel farm (combined) shall not exceed 5,735,000 gallons, calculated monthly as the sum of each consecutive 12-month period.  
(9 VAC 5-80-110 and Condition 57 of 05/31/05 Permit)

3. **Throughput** - The annual throughput of gasoline through the loading rack (Ref. No. PETO-001a) shall not exceed 120,000 gallons, calculated monthly as the sum of each consecutive 12-month period. The annual throughput of gasoline through storage tank associated with the loading rack (Ref. No. PETO-001a) shall not exceed 120,000 gallons, calculated monthly as the sum of each consecutive 12-month period.  
(9 VAC 5-80-110 and Condition 58 of 05/31/05 Permit)

4. **Emission Limits** - Emissions from the gasoline operations (combined) shall not exceed the limits specified below:

|                                      |              |
|--------------------------------------|--------------|
| Volatile Organic Compounds           | 37.7 tons/yr |
| Hazardous Air Pollutant (individual) | 4.5 tons/yr  |
| Hazardous Air Pollutant (combined)   | 6.0 tons/yr  |

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition numbers VI.A. 1, 2, 3, and VI.C.

(9 VAC 5-80-110 and Condition 59 of 05/31/05 Permit)

**B. Monitoring**

At least once per year, the permittee shall observe a gasoline delivery to GSTA-003, 005, and 006 for the Stage I vapor recovery system usage.  
(9 VAC 5-80-110 E)

**C. Recordkeeping**

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Tidewater Regional Office. These records shall include, but are not limited to:

1. The annual throughput gasoline for the commercial service stations and military service station in the fuel farm (combined), calculated monthly as the sum of each consecutive 12-month period.
2. The annual throughput gasoline for storage tanks associated with the commercial service stations and military service station in the fuel farm (combined), calculated monthly as the sum of each consecutive 12-month period.
3. The annual throughput of gasoline through the loading rack (Ref. No. PETO-001a), calculated monthly as the sum of each consecutive 12-month period.
4. The annual throughput of gasoline through the storage tank associated with the loading rack (Ref. No. PETO-001a), calculated monthly as the sum of each consecutive 12-month period.
5. The Stage I monitoring results.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.

(9 VAC 5-80-110 and Condition 60 of 05/31/05 Permit)

## VII. Distillate Oil and JP-5 Operations

Equipment to be operated consists of:

| Emission Unit ID                                   | Stack ID  | Emission Unit Description  | Size/Rated Capacity*   | Pollution Control Device (PCD) Description | PCD ID | Pollutant Controlled | Applicable Permit Date |
|--|-----------|--|--|--|--------|----------------------|------------------------|
| Distillate Oil Operations in the Fuel Farm         |           |  |  |  |        |                      |                        |
| PETO-001b  | PETO-001b | distillate oil loading rack, after 1972  | 10K gal/hr   | N/A  | N/A    | N/A                  | SOP of 05/31/05        |
| GSTA-007   | GSTA-007  | military diesel service station  | One pump   | N/A  | N/A    | N/A                  | SOP of 05/31/05        |
| PETO-002   | PETO-002  | JP-5 loading rack, after 1972  | 15K gal/hr   | N/A  | N/A    | N/A                  | SOP of 05/31/05        |
| GSTA-012   | GSTA-012  | JP-5 service station, after 1972   | One pump for LCACs   | N/A  | N/A    | N/A                  | SOP of 05/31/05        |
| TNKA-044   | TNKA-044  | JP-5 storage tanks, after 1984   | 75 K   | N/A  | N/A    | N/A                  | SOP of 05/31/05        |
| TNKA-112   | TNKA-112  |  | 250 K  |  |        |                      |                        |
| TNKA-113   | TNKA-113  |  | 250 K  |  |        |                      |                        |
| FF tanks   | FF tanks  | Fuel farm distillate oil tanks: TNKA-046 & 047 (pre 1973), TNKA-117, TNKA-118 plus five other small storage tanks (after 1984) | TNKA-046 = 50 K<br>TNKA-047 = 50 K<br>TNKA-117 = 10 K<br>TNKA-118 = 10 K<br>All others, each <10 K with total storage at 136,750 gal |  |        |                      | SOP of 05/31/05        |
| Distillate Oil Operations outside of the Fuel Farm |           |  |  |  |        |                      |                        |
| GSTA-002   | GSTA-002  | Pier 19 distillate pumping station with associated tank TNKU-1551, pre 1973  | One pump. TNKU-1551 at 567K gal  | N/A  | N/A    | N/A                  | SOP of 05/31/05        |

\*The Size/Rated capacity is provided for informational purposes only, and is not an applicable requirement.

## **A. Limitations**

1. **Throughput** - The annual throughput of JP-5 oil through the JP-5 oil service station (Ref. No. GSTA-012) and the JP-5 loading rack (Ref. No. PETO-002), combined, shall not exceed 7,500,000 gallons, calculated monthly the sum of each consecutive 12-month period. The annual throughput of JP-5 oil through the storage tanks (TNKA-044, TNKA-112, and TNKA-113) associated with the JP-5 oil service station and loading rack (Ref. No. GSTA-012 & PETO-002), combined, shall not exceed 7,500,000 gallons, calculated monthly the sum of each consecutive 12-month period.  
(9 VAC 5-80-110 and Condition 61 of 05/31/05 Permit)
2. **Throughput** - The annual throughput of distillate oil through the loading rack (Ref. No. PETO-001b) and the military service station in the fuel farm (GSTA-007), combined, shall not exceed 1,500,000 gallons, calculated monthly as the sum of each consecutive 12-month period. The annual throughput of distillate oil through all the distillate oil storage tanks in the fuel farm (FF tanks), combined, shall not exceed 1,500,000 gallons, calculated monthly as the sum of each consecutive 12-month period.  
(9 VAC 5-80-110 and Condition 62 of 05/31/05 Permit)
3. **Throughput** - The annual throughput of distillate oil at the Pier 19 pumping station (GSTA-002) shall not exceed 4,500,000 gallons, calculated monthly as the sum of each consecutive 12-month period. The annual throughput of distillate oil for the storage tank at Pier 19 (TNKU-1551) shall not exceed 4,500,000 gallons, calculated monthly as the sum of each consecutive 12-month period.  
(9 VAC 5-80-110 and Condition 63 of 05/31/05 Permit)

## **B. Recordkeeping**

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Tidewater Regional Office. These records shall include, but are not limited to:

1. The annual throughput of JP-5 fuel oil for the JP-5 fuel oil service station (Ref. No. GSTA-012) and the loading rack (PETO-002), combined, calculated monthly as the sum of each consecutive 12-month period.
2. The annual throughput of JP-5 fuel oil for the JP-5 fuel oil storage tanks, combined, calculated monthly as the sum of each consecutive 12-month period.
3. The annual throughput of distillate for the operation of loading rack (Ref. No. PETO-001b) and the military service station in the fuel farm, combined, calculated monthly as the sum of each consecutive 12-month period.
4. The annual throughput of diesel oil for the diesel oil storage tanks in the fuel farm, combined, calculated monthly as the sum of each consecutive 12-month period.
5. The annual throughput of distillate for Pier 19 pumping station (Ref. No. GSTA-002), calculated monthly as the sum of each consecutive 12-month period.

6. The annual throughput of distillate for the tank (TNKU-1551) at Pier 19, calculated monthly as the sum of each consecutive 12-month period.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.

(9 VAC 5-80-110 and Condition 64 of 05/31/05 Permit)

## VIII. Painting Operations

Equipment to be operated consists of:

| Emission Unit ID   | Stack ID   | Emission Unit Description  | Size/Rated Capacity*  | Pollution Control Device (PCD) Description | PCD ID                                    | Pollutant Controlled | Applicable Permit Date |
|--|--|--|---|--|---|----------------------|------------------------|
| PNTS-001, 006, & 016   | PNTS-001, 006, & 016 a, b, c, d, e, f, g, & h                          | Paint spray booths: PNTS-001 at bldg CB-301, a Dryer booth., after 1972.<br><br>PNTS-006 at bldg 3661, a Bentex booth, after 1972.<br><br>PNTS-016 at bldg CB-125 for causeways (ARBA-012 & ABRA-023), 1992. | PNTS-001, & 006 with one spray gun each.<br><br>PNTS-016 with two spray guns. | Dry filters for each spray booth stack.    | DF 1, 6, and 016 a, b, c, d, e, f, g, & h | PM/PM-10             | SOP of 05/31/05        |
| PNTO-007 thru 010, 012, 014 thru 018, & 020.<br>PNTS-010, 013 thru 015 | PNTO-007 thru 010, 012, 014 thru 018, & 020.<br>PNTS-010, 013 thru 015 | Aerosol can spray paint activities   | N/A   | N/A  | N/A                                       | N/A                  | SOP of 05/31/05        |
| PNTO-002 thru 006, 011, 013, & 019.<br>PNTS-005, 011, & 012            | PNTO-002 thru 006, 011, 013, & 019.<br>PNTS-005, 011, & 012            | Brush/roller painting activities   | N/A   | N/A  | N/A                                       | N/A                  | SOP of 05/31/05        |

\*The Size/Rated capacity is provided for informational purposes only, and is not an applicable requirement.

**A. Limitations**

1. **Emission Controls** - Particulate emissions from each paint spray booth (PNTS-001, PNTS-006, and PNTS-016) shall be controlled by a dry filter. Each particulate filter shall be provided with adequate access for inspection and shall be in operation when a spray paint booth is operating.  
(9 VAC 5-80-110 and Condition 65 of 05/31/05 Permit)
2. **Visible Emission Limit** - Visible emissions from each paint spray booth (PNTS-001, PNTS-006, and PNTS-016) shall not exceed five (5) percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).  
(9 VAC 5-80-110 and Condition 66 of 05/31/05 Permit)
3. **Throughput** - The annual throughput of coatings for the paint spray booths (PNTS-001, PNTS-006, and PNTS-016), combined, and shall not exceed 10,050 gallons, calculated monthly as the sum of each consecutive 12-month period.  
(9 VAC 5-80-110 and Condition 67 of 05/31/05 Permit)
4. **Throughput** - The annual use of aerosol spray paint (PNTS-007 through PNTS-010, PNTS-012, PNTS-014 through PNTS-018, PNTS-020, PNTS-010, and PNTS-013 through PNTS-015), combined, shall not exceed 1,170 gallons, calculated monthly as the sum of each consecutive 12-month period.  
(9 VAC 5-80-110 and Condition 68 of 05/31/05 Permit)
5. **Throughput** - The annual use of brush/roller paint (PNTS-002 through PNTS-006, PNTS-011, PNTS-013, PNTS-019, PNTS-005, PNTS-011, and PNTS-012), combined, shall not exceed 22,000 gallons, calculated monthly as the sum of each consecutive 12-month period.  
(9 VAC 5-80-110 and Condition 69 of 05/31/05 Permit)
6. **Emission Limits** - Emissions from the operation of the paint spray booths (Ref. Nos. PNTS-001, PNTS-006, and PNTS-016), combined, shall not exceed the limits specified below:

|                                      |                   |
|--------------------------------------|-------------------|
| Volatile Organic Compounds           | .....45.0 tons/yr |
| Hazardous Air Pollutant (individual) | 6.2 tons/yr       |
| Hazardous Air Pollutant (combined)   | 6.2 tons/yr       |

(9 VAC 5-80-110 and Condition 70 of 05/31/05 Permit)

7. **Emission Limits** - Emissions from the use of aerosol spray paint (Ref. Nos. PNT0-007 through PNT0-010, PNT0-012, PNT0-014 through PNT0-018, PNT0-020, PNTS-010, and PNTS-013 through PNTS-015), combined, shall not exceed the limits specified below:

|  |             |
|--|-------------|
| Volatile Organic Compounds                           | 5.0 tons/yr |
| Hazardous Air Pollutant (individual)                 | 3.7 tons/yr |
| Hazardous Air Pollutant (combined)                   | 3.7 tons/yr |
| (9 VAC 5-80-110 and Condition 71 of 05/31/05 Permit) |             |

8. **Emission Limits** - Emissions from the use of brush/roller paint (Ref. Nos. PNT0-002 through PNT0-006, PNT0-011, PNT0-013, PNT0-019, PNTS-005, PNTS-011, and PNTS-012), combined, shall not exceed the limits specified below:

|  |              |
|--|--------------|
| Volatile Organic Compounds                           | 38.5 tons/yr |
| Hazardous Air Pollutant (individual)                 | 3.2 tons/yr  |
| Hazardous Air Pollutant (combined)                   | 3.2 tons/yr  |
| (9 VAC 5-80-110 and Condition 72 of 05/31/05 Permit) |              |

## **B. Monitoring**

The permittee shall perform monthly visual observations from each spray paint booth exhaust stack (PNTS-001, PNTS-004, PNTS-006, and PNTS-016) during normal operations. If such periodic observation indicates any visible emissions, the permittee shall take corrective actions to eliminate the visible emissions. If such corrective action fails to eliminate the visible emissions, the permittee shall conduct a visible emission evaluation (VEE) using 40 CFR Part 60, Appendix A, Method 9 for six minutes to determine compliance with the opacity limit. Records of visual observations shall include the following: the name of the observer, date and time of the observation, identification of the stack, an indication of presence or absence of visible emissions, the duration of any visible emission incident, and any corrective action to eliminate visible emissions. If a VEE is conducted, records shall be in accordance with Method 9 (40 CFR 60, Appendix A). (9 VAC 5-80-110 E)

## **C. Recordkeeping**

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Tidewater Regional Office. These records shall include, but are not limited to:

1. The annual throughput of coatings (in gallons) for the paint spray booths (PNTS-001, PNTS-006, and PNTS-016), combined, calculated monthly as the sum of each consecutive 12-month period;

2. The annual throughput (in gallons) for the use of aerosol spray paint (PNT0-007 through PNT0-010, PNT0-012, PNT0-014 through PNT0-018, PNT0-020, PNTS-010, and PNTS-013 through PNTS-015), combined, calculated monthly as the sum of each consecutive 12-month period;
3. The annual throughput (in gallons) for the use of brush/roller paint (PNT0-002 through PNT0-006, PNT0-011, PNT0-013, PNT0-019, PNTS-005, PNTS-011, and PNTS-012), combined, calculated monthly as the sum of each consecutive 12-month period;
4. Current MSDS for each coating and solvent used in each spray paint booth, aerosol spray paint, and brush/roller paint, indicating the VOC and individual HAP content in pounds per gallon or percent by weight.
5. Calculated annual volatile organic compound and hazardous air pollutant emissions (individual and combination) to show compliance with Condition numbers VIII.A.6, 7, 8. Annual is calculated monthly as the sum of each consecutive 12-month period.
6. Records of the following items for each spray paint booth (Ref. No. PNTS-001, PNTS-006, and PNTS-016):
  - a. Each monthly visible emissions observation,
  - b. Any corrective actions taken to eliminate visible emissions, and
  - c. Each Method 9 visible emission evaluation performed.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.

(9 VAC 5-80-110 and Condition 73 of 05/31/05 Permit)

#### **D. Testing**

If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the following test methods in accordance with procedures approved by the DEQ as follows:

| Pollutant        | Test Method          |
|------------------|----------------------|
| HAPS             | EPA Methods 311      |
| VOC              | EPA Methods 24, 24 A |
| VOC Content      | EPA Methods 24, 24a  |
| Visible Emission | EPA Method 9         |

(9 VAC 5-80-110)

## IX. Woodworking Operations

Equipment to be operated consists of:

| Emission Unit ID          | Stack ID        | Emission Unit Description   | Size/Rated Capacity* | Pollution Control Device (PCD) Description | PCD ID          | Pollutant Controlled | Applicable Permit Date |
|---------------------------|-----------------|---|----------------------|--|-----------------|----------------------|------------------------|
| Woodworking Operations    |                 |   |                      |  |                 |                      |                        |
| WOOD-007 & 008            | W-7 & 8         | Wood working:<br>WOOD-007 in bldgCB-310.<br>WOOD-008 in bldg. 1618 All pre 1972.  | N/A                  | Fabric filters                             | WBH-7 & 8       | PM/PM-10             | N/A                    |
| WOOD-003, 004, 005, & 006 | W- 3, 4, 5, & 6 | Wood working:<br>WOOD-003 in bldg 1522.<br>WOOD-004 in bldg 3175.<br>WOOD-005 at bldg 3227.<br>WOOD-006 at bldg 3530.<br>All pre 1972 | N/A                  | Cyclones                                   | WC-3, 4, 5, & 6 | PM/PM-10             | N/A                    |

\*The Size/Rated capacity is provided for informational purposes only, and is not an applicable requirement.

## **A. Limitations**

1. **Emission Controls** - Particulate matter emissions from WOOD-007 and WOOD-008 shall be controlled by fabric filters (WBH-7 & 8). Each fabric filter shall be maintained and operated according to the manufacturer's recommendations, shall be provided with adequate access for inspection, and shall be in operation when a wood working operation is being conducted.  
(9 VAC 5-80-110 and 9 VAC 5-40-2270 A)
2. **Emission Controls** - Particulate matter emissions from WOOD-003, 004, 005, and 006 shall be controlled by cyclones (WC-3, 4, 5 & 6). Each cyclone shall be maintained and operated according to the manufacturer's recommendations, shall be provided with adequate access for inspection, and shall be in operation when a wood working operation is being conducted.  
(9 VAC 5-80-110 and 9 VAC 5-40-2270 A)
3. **Emission Limits** - Particulate matter emissions from each woodworking shop (WOOD-003, WOOD-004, WOOD-005, WOOD-006, WOOD-007, and WOOD-008) shall not exceed 0.05 grains per standard cubic feet of exhaust gas.  
(9 VAC 5-80-110 and 9 VAC 5-40-2270 B)
4. **Visible Emission Limits** - Visible emissions from each woodworking stack (WC-3, 4, 5, 6, 7 & 8) shall not exceed twenty (20) percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A), except during one six-minute period in any one hour in which visible emissions shall not exceed sixty (60) percent opacity.  
(9 VAC 5-80-110 and 9 VAC 5-40-80)

## **B. Monitoring**

1. The permittee shall conduct an internal inspection of each cyclone (WC-3, 4, 5, & 6) for structural integrity. If there is no access door to view the internal part of the cyclone, the permittee shall conduct external inspection of the duct work, and the emission capture and control system.  
(9 VAC 5-80-110 E)

2. The permittee shall perform an annual visible emission observation for each woodworking stack (W-3 through 8) during normal operations. If such periodic visible emission observations indicate any opacity, the permittee shall take appropriate action to correct the cause of the opacity. If such corrective action fails to correct the problem, the permittee shall conduct a visible emission evaluation (VEE) using 40 CFR Part 60, Appendix A, Method 9 for six minutes. If the six minute VEE average exceeds 10%, the VEE shall continue for an additional 12 minutes. If any six minute average during the 18 minutes exceeds 20%, the VEE shall continue for one hour from initiation to determine compliance with the opacity limit. Records of visual observations shall include the following: the name of the observer, date and time of the observation, identification of the stack, an indication of presence or absence of visible emissions, the duration of any visible emission incident, and any corrective action to eliminate visible emissions. If a VEE is conducted, records shall be in accordance with Method 9 (40 CFR 60, Appendix A).  
(9 VAC 5-80-110 E)

**C. Recordkeeping**

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Tidewater Regional Office. These records shall include, but are not limited to:

1. Annual inspections of the cyclones (WC-3 through 6);
2. Records of the following items for each woodworking stacks (W-3 through 8):
  - a. Each annual visible emission observation,
  - b. Any corrective actions taken to eliminate visible emissions, and
  - c. Each Method 9 visible emission evaluation performed.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.  
(9 VAC 5-80-110)

**D. Testing**

If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the following test methods in accordance with procedures approved by the DEQ as follows:

| Pollutant        | Test Method       |
|------------------|-------------------|
| PM               | EPA Methods 5, 17 |
| Visible Emission | EPA Method 9      |

(9 VAC 5-80-110)

**X. Degreasing Operations– Non-Halogenated Cold Degreasers (DEGS-GRP1)**

Equipment to be operated consists of the following degreasers that contain solvent at less than 120 degrees F:

| Emission Unit No. | Emission Unit Description | Size/ Rated Capacity | Building/ Location |
|-------------------|---------------------------|----------------------|--------------------|
| DEGS-001          | Solvent Degreasing        | < 10 gal             | 108                |
| DEGS-013          | Solvent Degreasing        | < 10 gal             | 1618               |
| DEGS-018          | Solvent Degreasing        | < 10 gal             | 3816               |
| DEGS-021          | Solvent Degreasing        | < 10 gal             | 3511               |
| DEGS-024          | Solvent Degreasing        | < 10 gal             | 3514               |
| DEGS-025          | Solvent Degreasing        | < 10 gal             | 3859               |
| DEGS-031          | Solvent Degreasing        | < 10 gal             | 3165               |
| DEGS-039          | Solvent Degreasing        | < 10 gal             | 3853               |
| DEGS-042          | Solvent Degreasing        | < 10 gal             | CB-301             |
| DEGS-044 & 45     | Solvent Degreasing        | < 10 gal             | 3615               |

**A. Limitations**

1. Vapor control is required for each cold cleaner (DEGS-GRP1) to remove, destroy, or prevent the discharge into the atmosphere of at least 85% by weight of volatile organic compound emissions. Achievement of the 85% vapor control shall be done by the following:
  - a. Covers or enclosed remote reservoirs;
  - b. Drainage facilities to collect and return solvent to a closed container or a solvent cleaning machine;
  - c. A permanent label, summarizing the operating procedures in 9 VAC 5-40-3290 C.2.a-c on/near the cold cleaning unit(s);
  - d. If used, the solvent spray should be a solid, fluid stream (not a fine, atomized or shower type spray) and at a pressure which does not cause excessive splashing.  
 (9 VAC 5-80-110, 9 VAC 5-40-3280 C.1 & 2, and 9 VAC 5-40-3290.C.1.a-d)

2. The following operating procedures for the cold cleaning units (DEGS-GRP1) shall be followed:
  - a. Waste solvent should not be disposed of or transferred to another party, such that no greater than 20% of the waste (by weight) can evaporate to the atmosphere. Waste solvent shall be stored in closed containers only.
  - b. The cold cleaning unit cover should be closed whenever not handling parts in the cold cleaner.
  - c. Cleaned parts should drain for at least 15 seconds or until dripping ceases.  
(9 VAC 5-80-110, 9 VAC 5-40-3280 C.1 & 2, and 9 VAC 5-40-3290.C.2.a-c)
3. Disposal of waste solvent from the cold cleaning units (DEGS-GRP1) shall be done by one of the following:
  - a. Reclamation (either by outside services or in-house), or
  - b. Incineration.  
(9 VAC 5-80-110, 9 VAC 5-40-3280 C.1 & 2, and 9 VAC 5-40-3290.D)

## **B. Monitoring**

1. Each degreasing unit of DEGS-GRP-1 will be inspected once per calendar year to ensure the label with the operating procedures is placed on or near each degreasing unit.
2. Each degreasing unit of DEGS-GRP-1 will be inspected once per calendar year to ensure that each has a cover or enclosed remote reservoir, and waste solvent from each unit is be stored in closed containers.  
(9 VAC 5-80-110 E)

## **C. Recordkeeping**

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Tidewater Regional Office. These records shall include, but are not limited to:

1. Annual inspection results and any corrective actions taken;
2. Method(s) of waste solvent disposal.

These records shall be available on site for inspection by DEQ and shall be current for the most recent five (5) years.  
(9 VAC 5-80-110)

## **XI. Facility-Wide Conditions**

### **A. Limitations**

1. **Emission Limits** - Hazardous air pollutant (HAP) emissions, as defined by §112(b) of the Clean Air Act, from the permitted units shall not exceed 9.2 tons per year of any individual HAP or 23.0 tons per year of any combination, calculated monthly as the sum of each consecutive 12-month period. HAPS which are not accompanied by a specific CAS number shall be calculated as the sum of all compounds containing the named chemical when determining compliance with the individual HAP emissions limitation of 9.2 tons per year.  
(9 VAC 5-80-110 and Condition 74 of 05/31/05 Permit)
2. **Testing/Monitoring Ports** - The permitted facility shall be constructed so as to allow for emission testing and monitoring upon reasonable notice at any time, using appropriate methods. This includes constructing the facility such that volumetric flow rates and pollutant emission rate can be accurately determined by applicable test methods and providing stack or duct that is free from cyclonic flow. Test ports shall be provided when requested at the appropriate locations or in accordance with applicable performance specification (reference 40 CFR Part 60, Appendix B).  
(9 VAC 5-80-110 and Condition 3 of 5/31/05 Permit)
3. **Asbestos Related Activities** - The permittee shall conduct the following activities in accordance with 40 CFR 61, Subpart M:
  - a. Renovation and removal activities involving asbestos containing material (ACM) using licensed, trained facility personnel or contractors,
  - b. Disposal of asbestos generated waste, and
  - c. Any air cleaning activities associated with renovation and removal of ACM.  
(9 VAC 5-80-110, 9 VAC 5-60-70, and 40 CFR 61, Subpart M)
4. **Maintenance/Operating Procedures** - The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions from abrasive blasting, Group I boilers, Group III generators, and the indoor firing ranges with respect to air pollution control equipment, monitoring devices, and process equipment which affect such emissions:
  - a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance.
  - b. Maintain an inventory of spare parts.
  - c. Have available written operating procedures for equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum.

- d. Train operators in the proper operation of all such equipment and familiarize the operators with the written operating procedures.
- e. The permittee shall maintain records of the training provided including the names of trainees, the date of training, and the nature of the training.

Records of maintenance and training shall be maintained on site for a period of five years and shall be made available to DEQ personnel upon request.  
(9 VAC 5-80-110 and Condition 80 of 5/31/05 permit)

**B. Recordkeeping**

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Tidewater Regional Office. These records shall include, but are not limited to:

- 1. Calculated annual hazardous air pollutant emissions (individual and combination) to show compliance with Condition No. XI.A.1. Annual is calculated monthly as the sum of each consecutive 12-month period.
- 2. These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-80-110 and Condition 75 of 05/31/05 Permit)

## XII. Insignificant Emission Units

The following emission units at the facility are identified in the application as insignificant emission units under 9 VAC 5-80-720:

| Emission Unit No.  | Emission Unit Description   | Citation         | Pollutant(s) Emitted (9 VAC 5-80-720B) | Rated Capacity (9 VAC 5-80-720 C)   | Building/ Location |
|--|---|------------------|--|---|--------------------|
| <b>Boilers</b>   |   |                  |  |   |                    |
| BOIL-007   | Group II boiler-Distillate oil-fired boiler, installed after 1972                                 | 9 VAC 5-80-720 C |  | 0.3548 MM BTU/hr  | Bldg 3511          |
| BOIL-009,<br>BOIL-012,<br>BOIL-014,<br>BOIL-016,<br>BOIL-019,<br>BOIL-020,<br>FURN-001,<br>FURN-002,<br>FURN-003,<br>FURN-004,<br>FURN-005   | Group III Boilers/<br>Furnaces-<br>Natural gas-fired boilers/<br>furnaces<br>installed after 1972 | 9 VAC 5-80-720 C |  | Each < 10 MM Btu/hr and total of 56.3 MM BTU/hr for all 11 units (combined) | Various            |
| BOIL-021,<br>BOIL-022,<br>BOIL-023,<br>BOIL-024,<br>BOIL-025,<br>BOIL-026<br>(2 units),<br>BOIL-027,<br>BOIL-028,<br>BOIL-029<br>(5 units),<br>BOIL-030<br>(10 units),<br>BOIL-031 | New Group III Boilers-<br>Natural gas-fired, installed after 1972                                 | 9 VAC 5-80-720 C |  | Each < 10 MM Btu/hr and total of 10 MM BTU/hr for all 25 units (combined)   | Various            |

| Emission Unit No.  | Emission Unit Description   | Citation                            | Pollutant(s) Emitted (9 VAC 5-80-720B) | Rated Capacity (9 VAC 5-80-720 C) | Building/ Location |
|--|---|-------------------------------------|--|-----------------------------------|--------------------|
| GIVB-OCOM 25 and 26  | Group IV Boilers-Used oil-fired, after 1972   | 9 VAC 5-80-720 C, per DEQ agreement |  | Each 0.185 MM BTU/hr              | Various            |
| Emergency Generators   |   |                                     |  |                                   |                    |
| ICGF- 03, 04, 07, 08, 31 thru 36, 41 thru 46, and 50 thru 52 | Group I diesel emergency generators-installed after 1972.   | 9 VAC 5-80-720 C                    |  | each < 600 HP                     | Various            |
| OCOM-12, 17, and 21 thru 25                                  | Group II diesel emergency generators-installed after 1972   | 9 VAC 5-80-720 C                    |  | each < 600 HP                     | Bldg 3872          |
| Small fuel pumping operations                                |   |                                     |  |                                   |                    |
| GSTA-001, 008, 009, and 014 thru 018                         | Small gasoline pumping operations-pump gasoline from small storage tanks into water craft, various off road vehicles, or other containers | 9 VAC 5-80-720 B                    | VOC/HAPS                               |                                   | Various            |
| GSTA-004, 010, 011, and 013                                  | Small diesel pumping operations-pump diesel oil into water craft, various off road vehicles, or other                                     | 9 VAC 5-80-720 B                    | VOC/HAPS                               |                                   | Various            |
| Storage Tanks  |   |                                     |  |                                   |                    |
| TG-II  | Group II Tanks-18 small diesel storage tanks  | 9 VAC 5-80-720 B                    | VOC/HAPS                               |                                   | Various            |

| Emission Unit No. | Emission Unit Description   | Citation         | Pollutant(s) Emitted (9 VAC 5-80-720B) | Rated Capacity (9 VAC 5-80-720 C) | Building/ Location |
|-------------------|---|------------------|--|-----------------------------------|--------------------|
| TG-III            | Group III Tank-Diesel Tank 093  | 9 VAC 5-80-720 B | VOC/HAPS                               |                                   | NAB-773            |
| TG-IV             | Group IV Tank-Gasoline tank TNKU-044 (GSTA-008)   | 9 VAC 5-80-720 B | VOC/HAPS                               |                                   | Cove Marina        |
| TG-V              | Group V Tanks-Six small gasoline storage tanks  | 9 VAC 5-80-720 B | VOC/HAPS                               |                                   | Various            |
| TG-VII            | Group VII tanks-Kerosene/isopar/norpar storage tanks TNKU-032, 033, 034, and 041                        | 9 VAC 5-80-720 B | VOC/HAPS                               |                                   | Bldg 1558          |
| TG-VIII           | Group VIII Tanks-Used oil storage tank: TNKU-023 at quay wall and 16 other small tanks, all after 1984. | 9 VAC 5-80-720 B | VOC/HAPS                               |                                   | Various            |
| TG-IX             | Group IX Tank-Distillate oil storage tank TANK-001, installed 08/20/2004 to 12/15/2005                  | 9 VAC 5-80-720 B | VOC/HAPS                               |                                   | Bldg 777           |
| Woodworking       |   |                  |  |                                   |                    |
| WOOD-010          | Woodworking Shop  | 9 VAC 5-80-720 B | TSP, PM-10                             |                                   | Bldg 3810          |
| WOOD-011          | Woodworking Shop  | 9 VAC 5-80-720 B | TSP, PM-10                             |                                   | Bldg 3606          |
| WOOD-013          | Woodworking Shop  | 9 VAC 5-80-720 B | TSP, PM-10                             |                                   | Bldg 3602          |

| Emission Unit No. | Emission Unit Description               | Citation         | Pollutant(s) Emitted (9 VAC 5-80-720B) | Rated Capacity (9 VAC 5-80-720 C) | Building/ Location |
|-------------------|---|------------------|--|-----------------------------------|--------------------|
| Chemical Cleaning |   |                  |  |                                   |                    |
| CHMC-006 & 7      | Chemical Cleaning Booths                | 9 VAC 5-80-720 B | VOC                                    |                                   | Bldg 3816          |
| Fiberglass Repair |   |                  |  |                                   |                    |
| FIBE-003          | Fiberglass Repair                       | 9 VAC 5-80-720 B | VOC                                    |                                   | Bldg 1619          |
| Material transfer |   |                  |  |                                   |                    |
| MATL-001          | Coal Car Dumping (Track House)          | 9 VAC 5-80-720 B | TSP, PM-10                             |                                   | NAB-757            |
| MATL-002          | Coal Conveyor Transfer (Transfer House) | 9 VAC 5-80-720 B | TSP, PM-10                             |                                   | NAB-757            |
| MATL-003          | Coal Mid-Conveyor Transfer              | 9 VAC 5-80-720 B | TSP, PM-10                             |                                   | NAB-757            |
| MATL-004          | Coal Silo Feed                          | 9 VAC 5-80-720 B | TSP, PM-10                             |                                   | NAB-757            |
| MATL-005          | Coal Bunker Feed                        | 9 VAC 5-80-720 B | TSP, PM-10                             |                                   | NAB-757            |
| MATL-006          | Ash Silo Feed                           | 9 VAC 5-80-720 B | TSP, PM-10                             |                                   | NAB-757            |
| MATL-007          | Ash Silo Dumping (Truck/Train Car)      | 9 VAC 5-80-720 B | TSP, PM-10                             |                                   | NAB-757            |
| MATL-008          | Coal Loader Dumping (Reclaimed)         | 9 VAC 5-80-720 B | TSP, PM-10                             |                                   | NAB-757            |
| MATL-009          | Coal Dumping (Silo To Conveyor)         | 9 VAC 5-80-720 B | TSP, PM-10                             |                                   | NAB-757            |
| Storage Pile      |   |                  |  |                                   |                    |
| PILE-001          | Coal Storage Pile                       | 9 VAC 5-80-720 B | TSP, PM-10                             |                                   | NAB-757            |

These emission units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for these emission units in accordance with 9 VAC 5-80-110.

### **XIII. Permit Shield & Inapplicable Requirements**

Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

| Citation   | Title of Citation  | Description of Applicability  |
|--|--|---|
| 40 CFR 63, all subparts--                        | National Emission Standards for Hazardous Air Pollutants   | NAB Little Creek does not qualify as a major source of HAPs, therefore, none of the NESHAPs are applicable. NAB Little Creek also does not conduct any operations which would have applicable requirements under an area source for any of the NESHAPs. |
| 40 CFR 61 Subpart M                              | National Emission Standards for Asbestos All sections except for 40 CFR §61.145, §61.146, §61.150, §61.152 and §61.153 | NAB Little Creek does not process, manufacture asbestos containing products and is only subject to the regulations associated with removal and disposal of asbestos containing material.  |
| 40 CFR, Part 60, Subpart EE                      | NSPS for Surface Coating of Metal Furniture  | NAB Little Creek does not operate any metal furniture coating lines   |
| 40 CFR, Part 60, Subpart MM                      | NSPS for Automobile and Light-Duty Truck Coating Operations  | NAB Little Creek is not a automobile and light-duty truck assembly plant.   |
| 40 CFR, Part 60, Subpart SS                      | NSPS for Industrial Surface Coating Large Appliances and Products  | NAB Little Creek does not coat any "Large Appliance Parts" or "Large Appliance Products" as defined by the regulation.  |
| VA/DEQ 9 Article 4-26, 9 VAC 5-40-3560, et. seq. | VOC Emission Standards For "Existing" Large Appliance Coating Application Systems                                      | NAB Little Creek does not coat any "Large Appliance Parts" or "Large Appliance Products" as defined by the regulation.  |

| Citation   | Title of Citation  | Description of Applicability  |
|--|--|---|
| VA/DEQ 9 Article 4-28, 9 VAC 5-40-3860, et. seq. | VOC Emission Standards For Automobile And Light Duty Truck Coating Application Systems                   | NAB Little Creek coating operations are not an integral part of a production process and consist of vehicle refinishing operations. This allows the units to be exempt from this regulation pursuant to 9 VAC 5-40-3860 C 1.  |
| VA/DEQ 9 Article 4-34, 9 VAC 5-40-4760, et. seq. | VOC Standards For Coating Operations of Miscellaneous Metal Parts and Products.                          | Manufacturing and coating operations of miscellaneous metal parts are not an integral part of any coating process. NAB Little Creek operations consist of vehicle refinishing, vehicle customized coating operations, and/or coating of fully assembled aircraft and marine vessels. This allows the units to be exempt from this regulation pursuant to 9 VAC 5-40-4760 D. |
| VA/DEQ 9 Article 4-25, 9 VAC 5-40-3410, et. seq. | VOC Standards That Apply to Storage or Transfer of Volatile Organic Liquids Other Than Petroleum Liquids | These requirements do not apply to fixed roof tanks with a storage capacity less than 40,000 gallons containing volatile organic liquids other than petroleum liquids.  |
| 40 CFR, Part 60, Subpart Kb                      | NSPS for VOC Liquid Storage Tanks  | NAB Little Creek Storage tanks contain liquids below the listed exempt vapor pressure.  |

Nothing in this permit shield shall alter the provisions of §303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by the administrator pursuant to §114 of the federal Clean Air Act, (ii) the Board pursuant to §10.1-1314 or §10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to §10.1-1307.3 of the Virginia Air Pollution Control Law.  
(9 VAC 5-80-140)

## **XIV. General Conditions**

### **A. Federal Enforceability**

All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.

(9 VAC 5-80-110 N)

### **B. Permit Expiration**

This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless the owner submits a timely and complete application for renewal to the Department consistent with the requirements of 9 VAC 5-80-80, the right of the facility to operate shall be terminated upon permit expiration.

1. The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.
2. If an applicant submits a timely and complete application for an initial permit or renewal under this section, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9 VAC 5 Chapter 80, until the Board takes final action on the application under 9 VAC 5-80-150.
3. No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9 VAC 5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9 VAC 5 Chapter 80.
4. If an applicant submits a timely and complete application under section 9 VAC 5-80-80 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9 VAC 5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.
5. The protection under subsections F 1 and F 5 (ii) of section 9 VAC 5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant section 9 VAC 5-80-80 D, the applicant fails to submit by the deadline specified in writing by the Board any additional information identified as being needed to process the application.  
(9 VAC 5-80-80 B, C and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)

### **C. Recordkeeping and Reporting**

1. All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:
  - a. The date, place as defined in the permit, and time of sampling or measurements.
  - b. The date(s) analyses were performed.
  - c. The company or entity that performed the analyses.
  - d. The analytical techniques or methods used.
  - e. The results of such analyses.
  - f. The operating conditions existing at the time of sampling or measurement.  
(9 VAC 5-80-110 F)
2. Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.  
(9 VAC 5-80-110 F)
3. The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than March 1 and September 1 of each calendar year. This report must be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:
  - a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31.
  - b. All deviations from permit requirements. For purposes of this permit, deviations include, but are not limited to:
    - (1) Exceedance of emissions limitations or operational restrictions;
    - (2) Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or compliance assurance monitoring which indicates an exceedance of emission limitations or operational restrictions; or,
    - (3) Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.

- c. If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that “no deviations from permit requirements occurred during this semi-annual reporting period.”

(9 VAC 5-80-110 F)

**D. Annual Compliance Certification**

Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than March 1 each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices. The compliance certification shall comply with such additional requirements that may be specified pursuant to §114(a)(3) and §504(b) of the federal Clean Air Act. This certification shall be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

1. The time period included in the certification. The time period to be addressed is January 1 to December 31.
2. The identification of each term or condition of the permit that is the basis of the certification.
3. The compliance status.
4. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance.
5. Consistent with subsection 9 VAC 5-80-110 E, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period.
6. Such other facts as the permit may require determining the compliance status of the source.
7. One copy of the annual compliance certification shall be sent to EPA at the following address:

Clean Air Act Title V Compliance Certification (3AP00)  
U. S. Environmental Protection Agency, Region III  
1650 Arch Street  
Philadelphia, PA 19103-2029.

(9 VAC 5-80-110 K.5)

**E. Permit Deviation Reporting**

The permittee shall notify the Director, Tidewater Regional Office within four daytime business hours after discovery of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to General Condition XIV.C.3. of this permit.

(9 VAC 5-80-110 F.2 and 9 VAC 5-80-250)

**F. Failure/Malfunction Reporting**

In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall, as soon as practicable but no later than four daytime business hours after the malfunction is discovered, notify the Director, Tidewater Regional Office by facsimile transmission, telephone or telegraph of such failure or malfunction and shall within 14 days of discovery provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Director, Tidewater Regional Office.

(9 VAC 5-20-180 C)

**G. Severability**

The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.

(9 VAC 5-80-110 G.1)

**H. Duty to Comply**

The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or, for denial of a permit renewal application.

(9 VAC 5-80-110 G.2)

**I. Need to Halt or Reduce Activity not a Defense**

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

(9 VAC 5-80-110 G.3)

**J. Permit Modification**

A physical change in, or change in the method of operation of, this stationary source may be subject to permitting under State Regulations 9 VAC 5-80-50, 9 VAC 5-80-1100, 9 VAC 5-80-1790, or 9 VAC 5-80-2000 and may require a permit modification and/or revisions except as may be authorized in any approved alternative operating scenarios.  
(9 VAC 5-80-190 and 9 VAC 5-80-260)

**K. Property Rights**

The permit does not convey any property rights of any sort, or any exclusive privilege.  
(9 VAC 5-80-110 G.5)

**L. Duty to Submit Information**

1. The permittee shall furnish to the Board, within a reasonable time, any information that the Board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the Board along with a claim of confidentiality.  
(9 VAC 5-80-110 G.6)
2. Any document (including reports) required in a permit condition to be submitted to the Board shall contain a certification by a responsible official that meets the requirements of 9 VAC 5-80-80 G.  
(9 VAC 5-80-110 K.1)

**M. Duty to Pay Permit Fees**

The owner of any source for which a permit under 9 VAC 5-80-50 through 9 VAC 5-80-300 was issued shall pay permit fees consistent with the requirements of 9 VAC 5-80-310 through 9 VAC 5-80-350. The actual emissions covered by the permit program fees for the preceding year shall be calculated by the owner and submitted to the Department by April 15 of each year. The calculations and final amount of emissions are subject to verification and final determination by the Department.  
(9 VAC 5-80-110 H and 9 VAC 5-80-340 C)

**N. Fugitive Dust Emission Standards**

During the operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:

1. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;
2. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;

3. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or other similar operations;
  4. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and,
  5. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.
- (9 VAC 5-40-90 and 9 VAC 5-50-90)

**O. Startup, Shutdown, and Malfunction**

At all times, including periods of startup, shutdown, soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

(9 VAC 5-50-20 E and 9 VAC 5-40-20 E)

**P. Alternative Operating Scenarios**

Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9 VAC 5 Chapter 80, Article 1.

(9 VAC 5-80-110 J)

**Q. Inspection and Entry Requirements**

The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:

1. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.
2. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.
3. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.
4. Sample or monitor at reasonable times, substances, or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(9 VAC 5-80-110 K.2)

**R. Reopening For Cause**

The permit shall be reopened by the Board if additional federal requirements become applicable to a major source with a remaining permit term of three years or more. Such reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9 VAC 5-80-80 F.

1. The permit shall be reopened if the Board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
2. The permit shall be reopened if the administrator or the Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
3. The permit shall not be reopened by the Board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9 VAC 5-80-110 D.

(9 VAC 5-80-110 L)

**S. Permit Availability**

Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.

(9 VAC 5-80-150 E)

**T. Transfer of Permits**

1. No person shall transfer a permit from one location to another, unless authorized under 9 VAC 5-80-130, or from one piece of equipment to another.

(9 VAC 5-80-160)

2. In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the Board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9 VAC 5-80-200.

(9 VAC 5-80-160)

3. In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the Board of the change in source name within 30 days of the name change and shall comply with the requirements of 9 VAC 5-80-200.

(9 VAC 5-80-160)

**U. Malfunction as an Affirmative Defense**

1. A malfunction constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the requirements of paragraph 2 of this condition are met.

2. The affirmative defense of malfunction shall be demonstrated by the permittee through properly signed, contemporaneous operating logs, or other relevant evidence that show the following:
  - a. A malfunction occurred and the permittee can identify the cause or causes of the malfunction.
  - b. The permitted facility was at the time being properly operated.
  - c. During the period of the malfunction the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit.
  - d. The permittee notified the board of the malfunction within two working days following the time when the emission limitations were exceeded due to the malfunction. This notification shall include a description of the malfunction, any steps taken to mitigate emissions, and corrective actions taken. The notification may be delivered either orally or in writing. The notification may be delivered by electronic mail, facsimile transmission, telephone, or any other method that allows the permittee to comply with the deadline. This notification fulfills the requirements of 9 VAC 5-80-110 F 2 b to report promptly deviations from permit requirements. This notification does not release the permittee from the malfunction reporting requirement under 9 VAC 5-20-180 C.
  - e. In any enforcement proceeding, the permittee seeking to establish the occurrence of a malfunction shall have the burden of proof.
  - f. The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any applicable requirement.

(9 VAC 5-80-250)

#### **V. Permit Revocation or Termination for Cause**

A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9 VAC 5 Chapter 80 Article 1. The Board may suspend, under such conditions and for such period of time as the Board may prescribe any permit for any of the grounds for revocation or termination or for any other violations of these regulations.

(9 VAC 5-80-190 C and 9 VAC 5-80-260)

#### **W. Duty to Supplement or Correct Application**

Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.

(9 VAC 5-80-80 E)

**X. Stratospheric Ozone Protection**

If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.  
(40 CFR Part 82, Subparts A-F)

**Y. Asbestos Requirements**

The permittee shall comply with the requirements of National Emissions Standards for Hazardous Air Pollutants (40 CFR 61) Subpart M, National Emission Standards for Asbestos as it applies to the following: Standards for Demolition and Renovation (40 CFR 61.145), Standards for Insulating Materials (40 CFR 61.148), and Standards for Waste Disposal (40 CFR 61.150).  
(9 VAC 5-60-70 and 9 VAC 5-80-110 A.1)

**Z. Accidental Release Prevention**

If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined by 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.  
(40 CFR Part 68)

**AA. Changes to Permits for Emissions Trading**

No permit revision shall be required under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.  
(9 VAC 5-80-110 I)

**BB. Emissions Trading**

Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:

1. All terms and conditions required under 9 VAC 5-80-110, except subsection N, shall be included to determine compliance.
2. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.
3. The owner shall meet all applicable requirements including the requirements of 9 VAC 5-80-50 through 9 VAC 5-80-300.

(9 VAC 5-80-110 I)

## **XV. State-Only Enforceable Requirements**

The following terms and conditions are not required under the federal Clean Air Act or under any of its applicable federal requirements, and are not subject to the requirements of 9 VAC 5-80-290 concerning review of proposed permits by EPA and draft permits by affected states.

1. 9 VAC 5 Chapter 50, Part II, Article 2: Standards of Performance for Odorous Emissions.
  2. 9 VAC 5 Chapter 40, Part I, Article 2: Standards of Performance for Odorous Emissions.
- (9 VAC 5-80-110 N)